

# PATENT ABSTRACTS OF JAPAN

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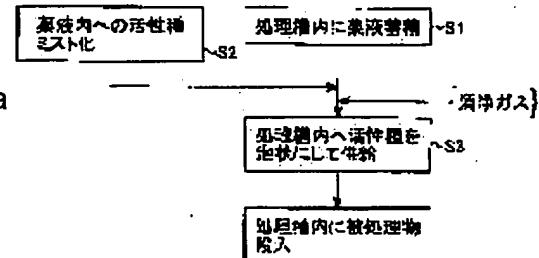
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**(54) ORGANIC SUBSTANCE SEPARATION METHOD AND ORGANIC SUBSTANCE SEPARATION EQUIPMENT**

**(57)Abstract:**

**PROBLEM TO BE SOLVED:** To provide an organic substance separation method and organic substance separation equipment wherein the life time of a chemical solution is prolonged and highly effective treatment is performed in organic substance elimination.



should to be exfoliated is stuck, a semiconductor wafer wherein particles should to be exfoliated are stuck, other worked products, components in various kinds of manufacturing equipment, etc. The chemical solution is, e.g. a sulfuric acid-hydrogen peroxide water mixed solution, and the solution which is to turn into mist is hydrogen peroxide water.

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**CLAIMS**

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**[Claim(s)]**

[Claim 1] The organic substance exfoliation approach characterized by Myst-izing the liquid which should be added as active species, and supplying it with clarification gas in the drug solution stored in the processing tub which exfoliates the organic substance at least.

[Claim 2] The organic substance exfoliation approach characterized by providing the process which stores a drug solution in the processing tub which exfoliates the organic substance at least, the process which Myst-izes the liquid which should be added as active species in said drug solution, and the process which said Myst-ized liquid is mixed with clarification gas, and makes the shape of a bubble and is supplied into said processing tub.

[Claim 3] The process which Myst-izes said liquid is the organic substance exfoliation approach according to claim 2 characterized by being attained by impressing a supersonic wave in said processing tub exterior.

[Claim 4] It is the organic substance exfoliation approach of any one publication among claims 1-3 characterized by for said drug solution being mixed liquor of a sulfuric acid and hydrogen peroxide solution, and said Myst-ized liquid being hydrogen peroxide solution.

[Claim 5] Organic substance exfoliation equipment characterized by to provide the processing tub which stores the drug solution which exfoliates the organic substance at least, the Myst-ized device which Myst-izes the liquid which should be added as active species in said drug solution, and the foamy feeder style by which clarification gas is given to said Myst-ized device and said Myst-ized liquid is supplied into said processing tub with clarification gas.

[Claim 6] Said Myst-ized device is organic substance exfoliation equipment according to claim 5 characterized by including the ultrasonic impression device which Myst-izes the liquid in a tub other than said processing tub in which said liquid is stored, and this tub.

[Claim 7] Said foamy feeder style is organic substance exfoliation equipment according to claim 5 characterized by including the path which connects said Myst-ized device to a supply plate with two or more apertures prepared in said processing tub, and this supply plate.

[Claim 8] It is organic substance exfoliation equipment of any one publication about the drug solution in said processing tub among claims 5-7 characterized by having the circulator style accompanied by fill tray SHON at least.

[Claim 9] It is organic substance exfoliation equipment of any one publication among claims 5-7 to which the mixed liquor of a sulfuric acid and hydrogen peroxide solution is stored in said processing tub as a drug solution, and hydrogen peroxide solution is characterized by carrying out specified quantity supply at said Myst-ized device as said liquid Myst-ized.